

**Report Date:** 30 Jun 2014

**Summary Report for Individual Task**  
**551-88L-3046**  
**Monitor Fueling Procedures**  
**Status: Approved**

---

**Distribution Restriction:** Approved for public release; distribution is unlimited.

**Destruction Notice:** None

**Foreign Disclosure: FD1** - The materials contained in this course have been reviewed by the course developers in coordination with the Fort Lee, VA 23801 foreign disclosure authority. This course is releasable to students from all requesting foreign countries without restrictions.

**Condition:** Assigned as a junior engineer aboard a vessel, at sea, at anchor or moored alongside the pier, day or night, under all sea and weather conditions. Take all necessary precautions given all applicable TM's, FM's, AR's, and local SOP's and regulations. Failure to comply can result in damaged equipment and serious injury or death to personnel.

**Standard:** On order, monitor fueling procedures IAW the applicable technical publication's procedures and specifications. Comply with all Warnings, Cautions, and Notes listed in the applicable references. Once the task is completed make all entries on all forms and records with out errors

**Special Condition:** None

**Safety Risk:** High

**MOPP 4:**

<b>Task Statements</b>
------------------------

**Cue:** None

**DANGER**

None

**WARNING**

None

**CAUTION**

None

**Remarks:** None

**Notes:** None

### **Performance Steps**

1. Monitor safety signs and announcements are implemented during fueling/defueling operations
  - a. Verify that NO SMOKING signs are placed at designated locations.
  - b. Verify that routine announcements regarding fueling operations are in progress.
  - c. Verify that other precautions are taken as required by U.S. Army regulations.
2. Monitor fueling/defueling procedures.
  - a. Fuel transfer operations
    - (1) Align the electrical system for fuel transfer operations.
    - (2) Filling of the day tanks
    - (3) Alignment of the fuel oil transfer piping system
    - (4) Transferring fuel between storage tanks
  - b. Fueling of the tanks
    - (1) Alignment of the fuel oil piping
    - (2) Alignment of the fuel tank
    - (3) Securing the fuel oil supply piping system
  - c. Defueling of the tanks
    - (1) Connection of the proper hoses and pumps
    - (2) Closing of the proper valves
    - (3) Disconnection of the fueling hose

## **WARNING**

DURING FUELING OPERATIONS, CLOSE COORDINATION IS REQUIRED BETWEEN THE CREW AND THE FUEL OIL SUPPLIER TO PREVENT SPILLS OR OVERFILLING TANKS. FAILURE TO COORDINATE CAN RESULT IN DAMAGED EQUIPMENT AND SERIOUS INJURY OR DEATH TO PERSONNEL.

## WARNING

FUELING AND DEFUELING OPERATIONS PRESENT A SERIOUS FIRE HAZARD. FAILURE TO ENFORCE THE USE OF SAFETY SIGNS AND ANNOUNCEMENTS OR TO COMPLY WITH SAFETY PRECAUTIONS CAN RESULT IN DAMAGED EQUIPMENT AND SERIOUS INJURY OR DEATH TO PERSONNEL.

3. Monitor drills to ensure that the refueling team is following proper procedures.

a. Verify that personnel take all precautions as required by FM 55-502 and local SOPs.

## WARNING

FAILURE TO COMPLY CAN RESULT IN DAMAGED EQUIPMENT AND SERIOUS INJURY OR DEATH TO PERSONNEL.

b. Verify that drip pans are in place at each connection to prevent accidental spillage from flowing into navigable waters.

c. Verify that all grounding connections are made prior to connecting any fuel hose.

## WARNING

STATIC ELECTRICITY CAN CAUSE A SPARK WHEN CONNECTING THE HOSE FROM A FUEL SOURCE TO THE VESSEL. FAILURE TO COMPLY CAN RESULT IN DAMAGED EQUIPMENT AND SERIOUS INJURY OR DEATH TO PERSONNEL.

d. Verify that BRAVO flag is hoisted by day and that the RED LIGHT is lit by night in order to alert passing watercraft to pass with minimum wake action.

## WARNING

THE WAKE OF PASSING WATERCRAFT CAN CAUSE THE VESSEL TO MOVE SIGNIFICANTLY ENOUGH TO SEPARATE THE FUEL HOSE. FAILURE TO COMPLY CAN RESULT IN DAMAGED EQUIPMENT AND SERIOUS INJURY OR DEATH TO PERSONNEL.

e. Verify that personnel do not fill at a rate greater than 250 gallons per minute (gal/min).

(Asterisks indicates a leader performance step.)

**Evaluation Guidance:** Mark each performance measure either GO or NO GO. Mark the Soldier GO if all performance measures are met. All measures must be marked GO to receive and overall GO on the task. Mark the Soldier a NO GO if any performance measures is not met. If the Soldier is marked a NO GO, inform the Soldier what was done incorrectly and how to perform the task to standard.

**Evaluation Preparation:** Safety precautions must be adhered to when performing the task listed in accordance with the prescribed technical manual (TM). Ensure that all LOCK OUT/TAG OUT procedures are followed. Ensure that all required equipment to perform this task is available. Brief Soldiers on how to monitor fueling procedures.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Monitored that safety signs and announcements are implemented during fueling/defueling operations			
a. Verified that NO SMOKING signs are placed at designated locations.			
b. Verified that routine announcements regarding fueling operations are in progress.			
c. Verified that other precautions are taken as required by U.S. Army regulations.			
2. Monitored refueling/defueling procedures			
a. Fuel transfer operations			
b. Fueling of the tanks			
c. Defueling of the tanks			
3. Monitored drills to ensure that the refueling team is following proper procedures.			
a. Verified that personnel take all precautions as required by FM 55-502.			
b. Verified that drip pans are in place at each connection to prevent accidental spillage from flowing into navigable waters.			
c. Verified that all grounding connections are made prior to connecting any fuel hose.			
d. Verified that BRAVO flag is hoisted by day and that the RED LIGHT is lit by night.			
e. Verified that personnel do not fill at a rate greater than 250 gallons per minute (gal/min).			

**Supporting Reference(s):**

Step Number	Reference ID	Reference Name	Required	Primary
	FM 55-502	Army Watercraft Safety (superseded by FM 4-01.502)	No	No
	TM 55-1905-223-10	Operator's Manual for Landing Craft, Utility (LCU 2000 CLASS) (NSN 1905-01-154-1191) (Reprinted W/Basic Incl C1-9) (This item is included on EM 0273)	No	No
	TM 55-1915-200-10	Operator's Manual for Logistic Support Vessel (LSV) (NSN 1915-01-153-8801) (Reprinted W/Basic Incl C1-6)	No	No
	TM 55-1925-236-12	OPERATOR AND UNIT MAINTENANCE MANUAL FOR SMALL TUG (ST) (NSN 1925-01-435-1713)	No	No
	TM 55-1925-273-10-1	Operator's Manual For Inland Coastal Large Tug (LT) (NSN 1925-01-509-7013)(EIC XAG) (This item is included on EM 0272)	No	No

**Environment:** Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT.

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with ATP 5-19, Risk Management. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological,

Radiological, and Nuclear Decontamination.

**Prerequisite Individual Tasks :** None

**Supporting Individual Tasks :**

Task Number	Title	Proponent	Status
551-88L-1024	Identify Fueling Procedures	551 - Transportation (Individual)	Analysis
551-8ST-3021	Conduct Refueling Operations	551 - Transportation (Individual)	Approved

**Supported Individual Tasks :**

Task Number	Title	Proponent	Status
551-88L-3043	Review Entries in a Vessel Logbook	551 - Transportation (Individual)	Analysis
551-8ST-3025	Ensure Compliance with a Vessel Safety Program	551 - Transportation (Individual)	Approved
551-88L-1025	Record Entries in a Vessel Logbook	551 - Transportation (Individual)	Approved
551-88L-2040	Review Entries in a Class B Vessel Logbook	551 - Transportation (Individual)	Approved
551-88L-2041	Comply with Fueling Procedures	551 - Transportation (Individual)	Approved

**Supported Collective Tasks :**

Task Number	Title	Proponent	Status
55-2-1508	Conduct Vessel Operations	55 - Transportation (Collective)	Approved
55-2-0080	Provide Operational Control for Vessels	55 - Transportation (Collective)	Approved

**ICTL Data :**

ICTL Title	Personnel Type	MOS Data
88L30 Watercraft Engineer	Enlisted	MOS: 88L, Skill Level: SL3, Duty Pos: TFR, LIC: EN
88L40 Watercraft Engineer	Enlisted	MOS: 88L, Skill Level: SL4, Duty Pos: TGB, LIC: EN, SQI: O